## SEQUENCE LISTING

<110> Beach, Kathleen Hedley, Mary Lynne Urban, Robert G. Chicz, Roman M.

<120> COMPOSITIONS AND METHODS FOR TREATING HUMAN PAPILLOMAVIRUS-MEDIATED DISEASE

<130> 08191-029US1 <140> US 10/532,168 <141> 2005-04-20 <150> PCT/US03/32705 <151> 2003-10-16 <150> US 60/420,068 <151> 2002-10-21 <150> US 60/471,481 <151> 2003-05-15 <160> 98 <170> FastSEQ for Windows Version 4.0 <210> 1 <211> 20 <212> PRT <213> Human papillomavirus Ala Met Phe Gln Asp Pro Gln Glu Arg Pro Arg Lys Leu Pro Gln Leu 10 Cys Thr Glu Leu 20 <210> 2 <211> 24 <212> PRT <213> Human papillomavirus <400> 2 Leu Leu Arg Arg Glu Val Tyr Asp Phe Ala Phe Arg Asp Leu Cys Ile 5 Val Tyr Arg Asp Gly Asn Pro Tyr

<210> 3 <211> 21 20

```
<212> PRT
<213> Human papillomavirus
<400> 3
Lys Ile Ser Glu Tyr Arg His Tyr Cys Leu Tyr Gly Thr Thr Leu Glu
1
Gln Gln Tyr Asn Lys
            20
<210> 4
<211> 19
<212> PRT
<213> Human papillomavirus
<400> 4
Thr Leu His Glu Tyr Met Leu Asp Leu Gln Pro Glu Thr Thr Asp Leu
                 5
                                     10
                                                          15
Tyr Ser Tyr
<210> 5
<211> 14
<212> PRT
<213> Human papillomavirus
<400> 5
Gln Ala Glu Pro Asp Arg Ala His Tyr Asn Ile Val Thr Phe
                 5
<210> 6
<211> 17
<212> PRT
<213> Human papillomavirus
<400> 6
Leu Leu Met Gly Thr Leu Gly Ile Val Cys Pro Ile Cys Ser Gln Lys
                                     10
Pro
<210> 7
<211> 42
<212> PRT
<213> Human papillomavirus
Arg Arg Pro Tyr Lys Leu Pro Asp Leu Cys Thr Glu Leu Asn Thr Ser
                                     10
Leu Gln Asp Ile Glu Ile Thr Cys Val Tyr Cys Lys Thr Val Leu Glu
Leu Thr Glu Val Phe Glu Phe Ala Phe Lys
```

```
<210> 8
<211> 25
<212> PRT
<213> Human papillomavirus
<400> 8
Ser Val Tyr Gly Asp Thr Leu Glu Lys Leu Thr Asn Thr Gly Asn Leu
1
                                     10
Leu Ile Arg Cys Leu Arg Cys Gln Lys
            20
<210> 9
<211> 19
<212> PRT
<213> Human papillomavirus
<400> 9
Lys Ala Thr Leu Gln Asp Ile Val Leu His Leu Glu Pro Gln Asn Glu
1
                 5
                                     10
Ile Pro Val
<210> 10
<211> 14
<212> PRT
<213> Human papillomavirus
<400> 10
His Thr Met Leu Cys Met Cys Cys Lys Cys Glu Ala Arg Ile
<210> 11
<211> 17
<212> PRT
<213> Human papillomavirus
Ala Phe Gln Gln Leu Phe Leu Asn Thr Leu Ser Phe Val Cys Pro Trp
1
                                                          15
Cys
<210> 12
<211> 230
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetically generated peptide
<400> 12
Ala Met Phe Gln Asp Pro Gln Glu Arg Pro Arg Lys Leu Pro Gln Leu
```

```
10
Cys Thr Glu Leu Leu Arg Arg Glu Val Tyr Asp Phe Ala Phe Arg
           20
                                25
Asp Leu Cys Ile Val Tyr Arg Asp Gly Asn Pro Tyr Lys Ile Ser Glu
Tyr Arg His Tyr Cys Leu Tyr Gly Thr Thr Leu Glu Gln Gln Tyr Asn
Lys Thr Leu His Glu Tyr Met Leu Asp Leu Gln Pro Glu Thr Thr Asp
                   70
                                        75
Lys Tyr Gln Ala Glu Pro Asp Arg Ala His Tyr Asn Ile Val Thr Phe
                                    90
Leu Leu Met Gly Thr Leu Gly Ile Val Cys Pro Ile Cys Ser Gln Lys
           100
                                105
Pro Arg Arg Pro Tyr Lys Leu Pro Asp Leu Cys Thr Glu Leu Asn Thr
                            120
Ser Leu Gln Asp Ile Glu Ile Thr Cys Val Tyr Cys Lys Thr Val Leu
                       135
                                           140
Glu Leu Thr Glu Val Phe Glu Phe Ala Phe Lys Ser Val Tyr Gly Asp
                                        155
                   150
Thr Leu Glu Lys Leu Thr Asn Thr Gly Asn Leu Leu Ile Arg Cys Leu
                                    170
Arg Cys Gln Lys Lys Ala Thr Leu Gln Asp Ile Val Leu His Leu Glu
                                185
           180
Pro Gln Asn Glu Ile Pro Val His Thr Met Leu Cys Met Cys Cys Lys
                            200
Cys Glu Ala Arg Ile Ala Phe Gln Gln Leu Phe Leu Asn Thr Leu Ser
                        215
Phe Val Cys Pro Trp Cys
225
<210> 13
<211> 255
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetically generated peptide
<400> 13
Met Ala Ile Ser Gly Val Pro Val Leu Gly Phe Phe Ile Ile Ala Val
                                    10
Leu Met Ser Ala Gln Glu Ser Trp Ala Ala Met Phe Gln Asp Pro Gln
                                25
Glu Arg Pro Arg Lys Leu Pro Gln Leu Cys Thr Glu Leu Leu Arg
                            40
Arg Glu Val Tyr Asp Phe Ala Phe Arg Asp Leu Cys Ile Val Tyr Arg
Asp Gly Asn Pro Tyr Lys Ile Ser Glu Tyr Arg His Tyr Cys Leu Tyr
                   70
                                        75
Gly Thr Thr Leu Glu Gln Gln Tyr Asn Lys Thr Leu His Glu Tyr Met
                                    90
Leu Asp Leu Gln Pro Glu Thr Thr Asp Lys Tyr Gln Ala Glu Pro Asp
           100
                                105
Arg Ala His Tyr Asn Ile Val Thr Phe Leu Leu Met Gly Thr Leu Gly
                            120
                                                125
Ile Val Cys Pro Ile Cys Ser Gln Lys Pro Arg Arg Pro Tyr Lys Leu
```

140 130 135 Pro Asp Leu Cys Thr Glu Leu Asn Thr Ser Leu Gln Asp Ile Glu Ile 150 155 Thr Cys Val Tyr Cys Lys Thr Val Leu Glu Leu Thr Glu Val Phe Glu 165 170 Phe Ala Phe Lys Ser Val Tyr Gly Asp Thr Leu Glu Lys Leu Thr Asn 180 185 Thr Gly Asn Leu Leu Ile Arg Cys Leu Arg Cys Gln Lys Lys Ala Thr 200 Leu Gln Asp Ile Val Leu His Leu Glu Pro Gln Asn Glu Ile Pro Val 215 220 His Thr Met Leu Cys Met Cys Cys Lys Cys Glu Ala Arg Ile Ala Phe 230 235 Gln Gln Leu Phe Leu Asn Thr Leu Ser Phe Val Cys Pro Trp Cys 245 250

<210> 14

<211> 255

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 14

Met Ala Ile Ser Gly Val Pro Val Leu Gly Phe Phe Ile Ile Ala Val 10 Leu Met Ser Ala Gln Glu Ser Trp Ala Ala Met Phe Gln Asp Pro Gln 25 Glu Arg Pro Arg Lys Leu Pro Gln Leu Cys Thr Glu Leu Leu Arg 40 Arg Glu Val Tyr Asp Phe Ala Phe Arg Asp Leu Cys Ile Val Tyr Arg Asp Gly Asn Pro Tyr Lys Ile Ser Glu Tyr Arg His Tyr Cys Leu Tyr 75 Gly Thr Thr Leu Glu Gln Gln Tyr Asn Lys Thr Leu His Glu Tyr Met 90 Leu Asp Leu Gln Pro Glu Thr Thr Asp Lys Tyr Gln Ala Glu Pro Asp 105 Arg Ala His Tyr Asn Ile Val Thr Phe Leu Leu Met Gly Thr Leu Gly 120 Ile Val Cys Pro Ile Cys Ser Gln Lys Pro Arg Arg Pro Tyr Lys Leu 135 140 Pro Asp Leu Cys Thr Glu Leu Asn Thr Ser Leu Gln Asp Ile Glu Ile 150 155 Thr Cys Val Tyr Cys Lys Thr Val Leu Glu Leu Thr Glu Val Phe Glu 165 170 Phe Ala Phe Lys Ser Val Tyr Gly Asp Thr Leu Glu Lys Leu Thr Asn 180 185 Thr Gly Asn Leu Leu Ile Arg Cys Leu Arg Cys Gln Lys Lys Ala Thr 200 Leu Gln Asp Ile Val Leu His Leu Glu Pro Gln Asn Glu Ile Pro Val 215 220 His Thr Met Leu Cys Met Cys Cys Lys Cys Glu Ala Arg Ile Ala Phe 230 235 Gln Gln Leu Phe Leu Asn Thr Leu Ser Phe Val Cys Pro Trp Cys

245 250 255

```
<210> 15
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E6
Ile Ser Glu Tyr Arg His Tyr Cys Tyr
<210> 16
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 16
Phe Gln Asp Pro Gln Glu Arg Pro Arg
1
                5
<210> 17
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 17
Arg Arg Glu Val Tyr Asp Phe Ala Phe
<210> 18
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 18
Thr Thr Leu Glu Gln Gln Tyr Asn Lys
<210> 19
<211> 10
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 19
Phe Gln Asp Pro Gln Glu Arg Pro Arg Lys
                5
                                     10
<210> 20
<211> 10
<212> PRT
```

<213> Human papillomavirus HPV 16 E6

7

```
<400> 20
Ile Ser Glu Tyr Arg His Tyr Cys Tyr Ser
<210> 21
<211> 10
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 21
Lys Ile Ser Glu Tyr Arg His Tyr Cys Tyr
<210> 22
<211> 10
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 22
Gly Thr Thr Leu Glu Gln Gln Tyr Asn Lys
                5
<210> 23
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 23
Lys Leu Pro Gln Leu Cys Thr Glu Leu
                5
1
<210> 24
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 24
Lys Ile Ser Glu Tyr Arg His Tyr Cys
<210> 25
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E6
Phe Ala Phe Arg Asp Leu Cys Ile Val
```

<210> 26

```
<211> 10
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 26
Tyr Cys Tyr Ser Ile Tyr Gly Thr Thr Leu
<210> 27
<211> 10
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 27
Ser Glu Tyr Arg His Tyr Cys Tyr Ser Leu
<210> 28
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 28
Ala Met Phe Gln Asp Pro Gln Glu Arg
<210> 29
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E6
Leu Leu Arg Arg Glu Val Tyr Asp Phe
                 5
<210> 30
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 30
Ile Val Tyr Arg Asp Gly Asn Pro Tyr
                 5
<210> 31
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 31
Val Tyr Asp Phe Ala Phe Arg Asp Leu
```

```
<210> 32
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 32
Cys Tyr Ser Leu Tyr Gly Thr Thr Leu
                 5
<210> 33
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 33
Glu Tyr Arg His Tyr Cys Tyr Ser Leu
<210> 34
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 34
Lys Leu Pro Gln Leu Cys Thr Glu Leu
<210> 35
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 35
Asp Pro Gln Glu Arg Pro Arg Lys Leu
<210> 36
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 36
His Tyr Cys Tyr Ser Leu Tyr Gly Thr
<210> 37
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E6
```

```
<400> 37
Asp Phe Ala Phe Arg Asp Leu Cys Ile
<210> 38
<211> 10
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 38
Leu Tyr Gly Thr Thr Leu Glu Gln Gln Tyr
<210> 39
<211> 10
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 39
His Tyr Cys Tyr Ser Leu Tyr Gly Thr Thr
                5
<210> 40
<211> 10
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 40
Glu Val Tyr Asp Phe Ala Phe Arg Asp Leu
                                     10
<210> 41
<211> 10
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 41
Glu Tyr Arg His Tyr Cys Tyr Ser Leu Tyr
<210> 42
<211> 10
<212> PRT
<213> Human papillomavirus HPV 16 E6
<400> 42
Val Tyr Asp Phe Ala Phe Arg Asp Leu Cys
<210> 43
<211> 9
```

```
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 43
Gln Ala Glu Pro Asp Arg Ala His Tyr
                 5
<210> 44
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 44
Ile Val Cys Pro Ile Cys Ser Gln Lys
<210> 45
<211> 8
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 45
Gln Pro Glu Thr Thr Asp Leu Tyr
<210> 46
<211> 10
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 46
Gln Ala Glu Pro Asp Arg Ala His Tyr Asn
                5
<210> 47
<211> 10
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 47
Asp Leu Gln Pro Glu Thr Thr Asp Leu Tyr
                 5
                                     10
<210> 48
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 48
Tyr Met Leu Asp Leu Gln Pro Glu Thr
```

```
<210> 49
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 49
Thr Leu His Glu Tyr Met Leu Asp Leu
<210> 50
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 50
Leu Leu Met Gly Thr Leu Gly Ile Val
<210> 51
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 51
Leu Met Gly Thr Leu Gly Ile Val Cys
<210> 52
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 52
Met Leu Asp Leu Gln Pro Glu Thr Thr
<210> 53
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 53
Thr Leu Gly Ile Val Cys Pro Ile Cys
<210> 54
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E7
```

<400> 54

```
Asp Leu Gln Pro Glu Thr Thr Asp Leu
<210> 55
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 55
Gly Thr Leu Gly Ile Val Cys Pro Ile
<210> 56
<211> 10
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 56
Tyr Met Leu Asp Leu Gln Pro Glu Thr Thr
                 5
<210> 57
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 57
Leu Gln Pro Glu Thr Thr Asp Leu Tyr
<210> 58
<211> 10
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 58
Leu Leu Met Gly Thr Leu Gly Ile Val Cys
<210> 59
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 59
Asp Leu Gln Pro Glu Thr Thr Asp Leu
                 5
<210> 60
<211> 9
<212> PRT
```

```
<213> Human papillomavirus HPV 16 E7
<400> 60
Thr Leu His Glu Tyr Met Leu Asp Leu
                5
<210> 61
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 61
Thr Pro Thr Leu His Glu Tyr Met Leu
                 5
<210> 62
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 62
Arg Ala His Tyr Asn Ile Val Thr Phe
<210> 63
<211> 9
<212> PRT
<213> Human papillomavirus HPV 16 E7
<400> 63
Glu Pro Asp Arg Ala His Tyr Asn Ile
<210> 64
<211> 10
<212> PRT
<213> Human papillomavirus HPV 18 E6
<400> 64
Leu Thr Glu Val Phe Glu Phe Ala Phe Lys
                5
<210> 65
<211> 9
<212> PRT
<213> Human papillomavirus HPV 18 E6
<400> 65
Lys Leu Pro Asp Leu Cys Thr Glu Leu
```

```
<210> 66
<211> 9
<212> PRT
<213> Human papillomavirus HPV 18 E6
<400> 66
Gly Leu Tyr Asn Leu Leu Ile Arg Cys
1
                 5
<210> 67
<211> 9
<212> PRT
<213> Human papillomavirus HPV 18 E6
<400> 67
Ser Leu Gln Asp Ile Glu Ile Thr Cys
<210> 68
<211> 10
<212> PRT
<213> Human papillomavirus HPV 18 E6
<400> 68
Ser Leu Gln Asp Ile Glu Ile Thr Cys Val
                 5
                                     10
<210> 69
<211> 9
<212> PRT
<213> Human papillomavirus HPV 18 E6
<400> 69
Leu Gln Asp Ile Glu Ile Thr Cys Val
<210> 70
<211> 9
<212> PRT
<213> Human papillomavirus HPV 18 E6
<400> 70
Lys Thr Val Leu Glu Leu Thr Glu Val
1
                 5
<210> 71
<211> 9
<212> PRT
<213> Human papillomavirus HPV 18 E6
<400> 71
Glu Leu Thr Glu Val Phe Glu Phe Ala
```

```
1
<210> 72
<211> 10
<212> PRT
<213> Human papillomavirus HPV 18 E6
<400> 72
Lys Leu Thr Asn Thr Gly Leu Tyr Asn Leu
<210> 73
<211> 9
<212> PRT
<213> Human papillomavirus HPV 18 E6
<400> 73
Leu Thr Asn Thr Gly Leu Tyr Asn Leu
                5
<210> 74
<211> 10
<212> PRT
<213> Human papillomavirus HPV 18 E6
<400> 74
Gly leu Tyr Asn Leu Leu Ile Arg Cys Leu
<210> 75
<211> 10
<212> PRT
<213> Human papillomavirus HPV 18 E6
<400> 75
Val Leu Glu Leu Thr Glu Val Phe Glu Phe
                 5
<210> 76
<211> 9
<212> PRT
<213> Human papillomavirus HPV 18 E6
<400> 76
Ser Val Tyr Gly Asp Thr Leu Glu Lys
<210> 77
<211> 10
<212> PRT
<213> Human papillomavirus HPV 18 E6
```

17

```
<400> 77
Leu Leu Ile Arg Cys Leu Arg Cys Gln Lys
<210> 78
<211> 9
<212> PRT
<213> Human papillomavirus HPV 18 E6
<400> 78
Val Tyr Cys Lys Thr Val Leu Glu Leu
               5
<210> 79
<211> 9
<212> PRT
<213> Human papillomavirus HPV 18 E6
<400> 79
Val Tyr Gly Asp Thr Leu Glu Lys Leu
<210> 80
<211> 10
<212> PRT
<213> Human papillomavirus HPV 18 E6
<400> 80
Leu Thr Asn Thr Gly leu Tyr Asn Leu Leu
                5
<210> 81
<211> 10
<212> PRT
<213> Human papillomavirus HPV 18 E7
<400> 81
His Leu Glu Pro Gln Asn Glu Ile Pro Val
                5
<210> 82
<211> 9
<212> PRT
<213> Human papillomavirus HPV 18 E7
Thr Leu Gln Asp Ile Val Leu His Leu
                5
```

<210> 83

```
<211> 10
<212> PRT
<213> Human papillomavirus HPV 18 E7
<400> 83
Ala Thr Leu Gln Asp Ile Val Leu His Leu
<210> 84
<211> 10
<212> PRT
<213> Human papillomavirus HPV 18 E7
Gln Leu Phe Leu Asn Thr Leu Ser Phe Val
                5
<210> 85
<211> 10
<212> PRT
<213> Human papillomavirus HPV 18 E7
<400> 85
Met Leu Cys Met Cys Cys Lys Cys Glu Ala
<210> 86
<211> 10
<212> PRT
<213> Human papillomavirus HPV 18 E7
Cys Met Cys Cys Lys Cys Glu Ala Arg Ile
<210> 87
<211> 9
<212> PRT
<213> Human papillomavirus HPV 18 E7
<400> 87
Phe Gln Gln Leu Phe Leu Asn Thr Leu
<210> 88
<211> 9
<212> PRT
<213> Human papillomavirus HPV 18 E7
<400> 88
Thr Leu Ser Phe Val Cys Pro Trp Cys
```

```
<210> 89
<211> 9
<212> PRT
<213> Human papillomavirus HPV 18 E7
<400> 89
His Thr Met Leu Cys Met Cys Cys Lys
                5
<210> 90
<211> 9
<212> PRT
<213> Human papillomavirus HPV 18 E7
<400> 90
Gln Leu Phe Leu Asn Thr Leu Ser Phe
                 5
<210> 91
<211> 10
<212> PRT
<213> Human papillomavirus HPV 18 E7
<400> 91
Ala Phe Gln Gln Leu Phe Leu Asn Thr Leu
                5
                                     10
<210> 92
<211> 25
<212> PRT
<213> Homo sapiens
<400> 92
Met Ala Ile Ser Gly Val Pro Val Leu Gly Phe Phe Ile Ile Ala Val
                5
                                     10
Leu Met Ser Ala Gln Glu Ser Trp Ala
            20
<210> 93
<211> 9
<212> PRT
<213> Human papillomavirus HPV 18
<400> 93
Leu Phe Leu Asn Thr Leu Ser Phe Val
<210> 94
<211> 9
<212> PRT
<213> Human papillomavirus HPV 6/11
```

```
<400> 94
Leu Leu Gly Thr Leu Asn Ile Val
<210> 95
<211> 9
<212> PRT
<213> Human papillomavirus HPV 11
<400> 95
Ser Ile Asp Gln Leu Cys Lys Thr Phe
<210> 96
<211> 9
<212> PRT
<213> Human papillomavirus HPV 6
<400> 96
Thr Ile Asp Gln Leu Cys Lys Thr Phe
<210> 97
<211> 9
<212> PRT
<213> Human papillomavirus HPV 18
<400> 97
Asn Leu Leu Ile Arg Cys Leu Arg Cys
                5
<210> 98
<211> 9
<212> PRT
<213> Human papillomavirus HPV 11
<400> 98
Lys Val Leu Ile Arg Cys Tyr Leu Cys
```